

IPP60R099CS

600V CoolMOS



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Infineon's latest generation of high voltage power MOSFETs will make AC/DC power supplies more efficient, more compact, lighter and cooler.

This target is achieved by offering the lowest on-state resistance per package outline, the fastest switching speed and the lowest gate drive requirements of commercially available high voltage MOSFETs. CoolMOS CS is for server and other high power density applications, enabling a technology for power supply systems with the highest efficiency, power density and smallest form factor.

- Ultra low gate charge
- Extreme dv/dt rated
- High peak current capability
- Qualified according to JEDEC for target applications

Key Applications

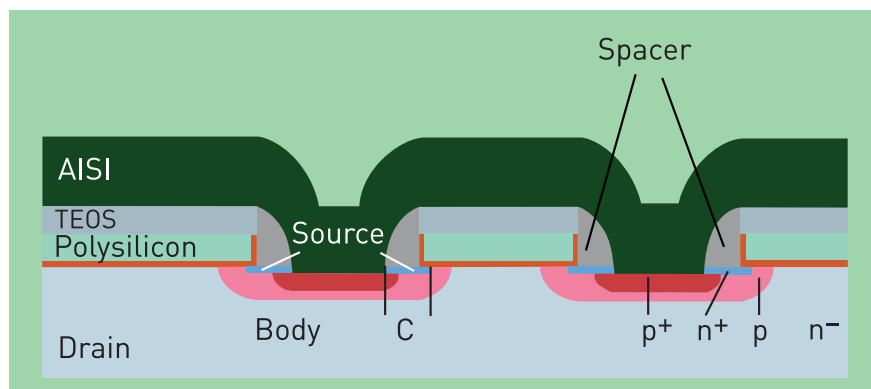
- Hard switching SMPS topologies
- Zero voltage switching SMPS topologies
- CCM PFC

Key Design Tips

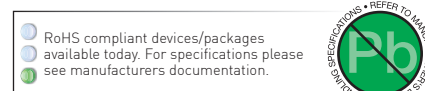
- Simulation models available on www.infineon.com

Key Features

- Worldwide best RDS(on) in a TO220 package



MOS Cross Section, NPN Parasitic Transistor shown at right



Specifications

Fields	Content
Mounting	Leaded
ID (max)	31A
Mode	Enhancement
Package	PG-TO220-3
Polarity	N
RDS (on) (max)	99 mOhm
RthJC (max)	0.5K/W
VDS (max)	600V
VGS(th) (max)	3.9V
VGS(th) (min)	2.1V
Qg (typ)	60nC
IDpuls (max)	93A
Ptot (max)	255W

Service available or already delivered T&R from Manufacturer.
Tapes are available, but not stocked at Avnet Logistics due to low demand.
Device supported by or programming equipment, but the socket for this package must be provided by customer.

P/N	Package	Programming	Taping & Reeling	Marking	Lead Free
IPP60R099CS	P-TO220-3				Y